

















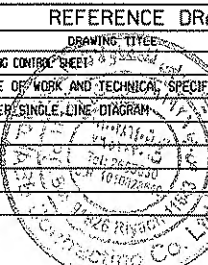



NOTES																			
1. 400A UGF FEEDER CUBICLE IS RELOCATED TO THIS LOCATION (+H2 OR +H2B) INSTEAD OF CAP BANK FEEDER CUBICLE BASED ON MANUFACTURE'S RECOMMENDATION/STANDARD DESIGN AS PER SEC-COA PREVIOUS PROJECTIONS. 2. THE MAXIMUM TEMPERATURE FOR ALL NEW ELECTRICAL EQUIPMENT/MATERIAL SHALL BE 55°C FOR OUTDOOR AND 40°C FOR INDOOR IN ACCORDANCE WITH 01-TMS-01-R1. 3. 132KV GIS & 13.8KV SWGR, CT/VT PARAMETERS ARE BASED ON PTS PROTECTION REQUIREMENT, CT/VT PARAMETERS SHALL BE SUBJECTED TO APPROVAL OF CT/VT SIZING CALCULATION. 4. THE METERS AND METERING DEVICES ARE BASED ON PTS PROTECTION REQUIREMENT IN ACCORDANCE WITH 40-TMS-03-R0.																			
LEGENDS																			
<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;">  <p>3 WDG POWER TRANSFORMER WITH OLTC ON HV SIDE</p> </div> <div style="width: 65%;"> <p>132kV SYSTEM</p> <p>SEC 132KV BAY DESIGNATION</p> <p>GIS CIRCUIT BREAKER</p> <p>GIS DISCONNECTOR WITH MAINTENANCE EARTHING SWITCH (MOTOR OPERATED) WITH LEADS BROUGHT OUT ON 10kV BUSHING</p> <p>GIS HIGH SPEED EARTHING SWITCH (MOTOR OPERATED + SPRING) WITH LEADS BROUGHT OUT ON 10kV BUSHING</p> <p>CURRENT TRANSFORMER</p> <p>GIS VT (3 WDG) WITH HAND OPERATED ISOLATING LINK WITH PRIMARY NEUTRAL BROUGHT OUT ON 10kV BUSHING</p> <p>SF6/CABLE INTERFACE (GIS TO CABLE INTERFACE)</p> <p>AIR/OIL INTERFACE (GIS BUSHING TO CABLE INTERFACE)</p> <p>SF6/AIR INTERFACE (GIS TO AIR BUSHING)</p> <p>APPARATUS DESIGNATION IN SAS</p> <p>SURGE ARRESTOR WITH COUNTER</p> <p>13.8kV SYSTEM</p> <p>SEC 13.8KV BAY DESIGNATION</p> <p>13.8KV CIRCUIT BREAKER DRAWOUT TYPE (TYPE VD4 OF ABB MAKE)</p> <p>EARTHING SWITCH (HAND OPERATED)</p> <p>DRAWOUT VOLTAGE TRANSFORMER (3 WDG) WITH HV FUSE</p> <p>DRAWOUT VOLTAGE TRANSFORMER (2 WDG) WITH HV FUSE</p> <p>AUX. TRANSFORMER</p> <p>NEUTRAL EARTHING RESISTOR</p> </div> </div>																			
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REFERENCE DRAWINGS																			
DRAWING TITLE:		DRAWING NO.																	
DRAWING CONTROL SHEET:		CE-320748																	
SCOPE OF WORK AND TECHNICAL SPECIFICATIONS		PTS-11CN128																	
TENDER/SINGLE LINE DIAGRAM		CT-983198																	
																			
AS-BUILT																			
BY _____		DATE _____																	
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00		MAY-13	ABD	FOR APPROVAL	AA	AAK	AAK												
DRAWING COMPLETION CERTIFICATE (GCC):																			
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DRAWN BY _____ AMED ADLY CHECKED BY _____ AAK SCALE: _____ NONE																			
DATE STARTED _____ JUNE, 2012 DATE COMPLETED _____																			
CIVIL DEPT. _____ ENG. DEPT. _____																			
THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION OR FOR ORDERING MATERIAL UNTIL CERTIFIED AND DATED BY _____ DATE _____																			
AMR SINGLE LINE DIAGRAM																			
132/13.8kV SUBSTATION #8162																			
2ND INDUSTRIAL AREA SUBSTATION #8162																			
RIYADH		SAUDI ARABIA																	
INDEX 00	PLANT NO. P C469	DRAWING NUMBER CA-320751	SHEET NO. 01 OF 01																